



SEQUENCE LISTING

<110> Zhu, J.  
Ding, A.  
Nathan, C.

<120> Use of proepithelin to promote wound  
repair and reduce inflammation

<130> 1676.011US1

<140> US 10/735,289

<141> 2003-12-12

<150> 60/432,948

<151> 2002-12-12

<160> 32

<170> FastSEQ for Windows Version 4.0

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<211> 593

<212> PRT

<213> Homo sapiens

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 325 330 335  
 Gln Gly Pro His Gln Val Pro Trp Met Glu Lys Ala Pro Ala His Leu  
 340 345 350  
 Ser Leu Pro Asp Pro Gln Ala Leu Lys Arg Asp Val Pro Cys Asp Asn  
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 Val Ser Ser Cys Pro Ser Ser Asp Thr Cys Cys Gln Leu Thr Ser Gly  
 370 375 380  
 Glu Trp Gly Cys Cys Pro Ile Pro Glu Ala Val Cys Cys Ser Asp His  
 385 390 395 400  
 Gln His Cys Cys Pro Gln Gly Tyr Thr Cys Val Ala Glu Gly Gln Cys  
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 Gln Arg Gly Ser Glu Ile Val Ala Gly Leu Glu Lys Met Pro Ala Arg  
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 Arg Ala Ser Leu Ser His Pro Arg Asp Ile Gly Cys Asp Gln His Thr  
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 Ser Cys Pro Val Gly Gly Thr Cys Cys Pro Ser Leu Gly Gly Ser Trp  
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 Lys Glu Val Val Ser Ala Gln Pro Ala Thr Phe Leu Ala Arg Ser Pro  
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 Pro Tyr Arg Gln Gly Val Cys Cys Ala Asp Arg Arg His Cys Cys Pro  
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 Ala His Cys Ser Ala Gly His Ser Cys Ile Phe Thr Val Ser Gly Thr  
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Phe Gln Arg Ser Gly Asn Asn Ser Val Gly Ala Ile Gln Cys Pro Asp  
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Ser Gln Phe Glu Cys Pro Asp Phe Ser Thr Cys Cys Val Met Val Asp  
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Gly Ser Trp Gly Cys Cys Pro Met Pro Gln Ala Ser Cys Cys Glu Asp  
145 150 155 160  
Arg Val His Cys Cys Pro His Gly Ala Phe Cys Asp Leu Val His Thr  
165 170 175  
Arg Cys Ile Thr Pro Thr Gly Thr His Pro Leu Ala Lys Lys Leu Pro  
180 185 190  
Ala Gln Arg Thr Asn Arg Ala Val Ala Leu Ser Ser Ser Val Met Cys  
195 200 205  
Pro Asp Ala Arg Ser Arg Cys Pro Asp Gly Ser Thr Cys Cys Glu Leu  
210 215 220  
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Ser Asp His Leu His Cys Cys Pro Gln Asp Thr Val Cys Asp Leu Ile  
245 250 255  
Gln Ser Lys Cys Leu Ser Lys Glu Asn Ala Thr Thr Asp Leu Leu Thr  
260 265 270  
Lys Leu Pro Ala His Thr Val Gly Asp Val Lys Cys Asp Met Glu Val  
275 280 285  
Ser Cys Pro Asp Gly Tyr Thr Cys Cys Arg Leu Gln Ser Gly Ala Trp  
290 295 300  
Gly Cys Cys Pro Phe Thr Gln Ala Val Cys Cys Glu Asp His Ile His  
305 310 315 320  
Cys Cys Pro Ala Gly Phe Thr Cys Asp Thr Gln Lys Gly Thr Cys Glu  
325 330 335  
Gln Gly Pro His Gln Val Pro Trp Met Glu Lys Ala Pro Ala His Leu  
340 345 350  
Ser Leu Pro Asp Pro Gln Ala Leu Lys Arg Asp Val Pro Cys Asp Asn  
355 360 365  
Val Ser Ser Cys Pro Ser Ser Asp Thr Cys Cys Gln Leu Thr Ser Gly  
370 375 380  
Glu Trp Gly Cys Cys Pro Ile Pro Glu Ala Val Cys Cys Ser Asp His  
385 390 395 400  
Gln His Cys Cys Pro Gln Gly Tyr Thr Cys Val Ala Glu Gly Gln Cys  
405 410 415  
Gln Arg Gly Ser Glu Ile Val Ala Gly Leu Glu Lys Met Pro Ala Arg  
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Arg Ala Ser Leu Ser His Pro Arg Asp Ile Gly Cys Asp Gln His Thr  
435 440 445  
Ser Cys Pro Val Gly Gln Thr Cys Cys Pro Ser Leu Gly Gly Ser Trp  
450 455 460  
Ala Cys Cys Gln Leu Pro His Ala Val Cys Cys Glu Asp Arg Gln His  
465 470 475 480  
Cys Cys Pro Ala Gly Tyr Thr Cys Asn Val Lys Ala Arg Ser Cys Glu  
485 490 495  
Lys Glu Val Val Ser Ala Gln Pro Ala Thr Phe Leu Ala Arg Ser Pro  
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His Val Gly Val Lys Asp Val Glu Cys Gly Glu Gly His Phe Cys His  
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Pro Tyr Arg Gln Gly Val Cys Cys Ala Asp Arg Arg His Cys Cys Pro  
545 550 555 560  
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 Trp Pro Arg Ile Thr Ser His His Leu Asp Gly Ser Cys Gln Thr His  
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 Gly His Cys Pro Ala Gly Tyr Ser Cys Leu Leu Thr Val Ser Gly Thr  
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His	Cys	Cys	Pro	Gln	Gly	Phe	His	Cys	Ser	Ala	Asp	Gly	Lys	Ser	Cys
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Phe	Gln	Met	Ser	Asp	Asn	Pro	Leu	Gly	Ala	Val	Gln	Cys	Pro	Gly	Ser
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Gln	Phe	Glu	Cys	Pro	Asp	Ser	Ala	Thr	Cys	Cys	Ile	Met	Val	Asp	Gly
		130					135				140				
Ser	Trp	Gly	Cys	Cys	Pro	Met	Pro	Gln	Ala	Ser	Cys	Cys	Glu	Asp	Arg
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Val	His	Cys	Cys	Pro	His	Gly	Ala	Ser	Cys	Asp	Leu	Val	His	Thr	Arg
				165					170					175	
Cys	Val	Ser	Pro	Thr	Gly	Thr	His	Thr	Leu	Leu	Lys	Lys	Phe	Pro	Ala
			180					185					190		
Gln	Lys	Thr	Asn	Arg	Ala	Val	Ser	Leu	Pro	Phe	Ser	Val	Val	Cys	Pro
		195					200					205			
Asp	Ala	Lys	Thr	Gln	Cys	Pro	Asp	Asp	Ser	Thr	Cys	Cys	Glu	Leu	Pro
	210					215					220				
Thr	Gly	Lys	Tyr	Gly	Cys	Cys	Pro	Met	Pro	Asn	Ala	Ile	Cys	Cys	Ser
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Asp	His	Leu	His	Cys	Cys	Pro	Gln	Asp	Thr	Val	Cys	Asp	Leu	Ile	Gln
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Ser	Lys	Cys	Leu	Ser	Lys	Asn	Tyr	Thr	Thr	Asp	Leu	Leu	Thr	Lys	Leu
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Cys	Pro	Phe	Ala	Lys	Ala	Val	Cys	Cys	Glu	Asp	His	Ile	His	Cys	Cys
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Pro	Asp	Pro	Gln	Ile	Leu	Lys	Ser	Asp	Thr	Pro	Cys	Asp	Asp	Phe	Thr
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Arg	Cys	Pro	Thr	Asn	Asn	Thr	Cys	Cys	Lys	Leu	Asn	Ser	Gly	Asp	Trp
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Gly	Cys	Cys	Pro	Ile	Pro	Glu	Ala	Val	Cys	Cys	Ser	Asp	Asn	Gln	His
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Cys	Cys	Pro	Gln	Gly	Phe	Thr	Cys	Leu	Ala	Gln	Gly	Tyr	Cys	Gln	Lys
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Gly	Asp	Thr	Met	Val	Ala	Gly	Leu	Glu	Lys	Ile	Pro	Ala	Arg	Gln	Thr
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Thr	Pro	Leu	Gln	Ile	Gly	Asp	Ile	Gly	Cys	Asp	Gln	His	Thr	Ser	Cys
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Cys	Gln	Leu	Pro	His	Ala	Val	Cys	Cys	Glu	Asp	Arg	Gln	His	Cys	Cys
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Val	Asp	Phe	Ile	Gln	Pro	Pro	Val	Leu	Leu	Thr	Leu	Gly	Pro	Lys	Val
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Gly	Asn	Val	Glu	Cys	Gly	Glu	Gly	His	Phe	Cys	His	Asp	Asn	Gln	Thr
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Cys	Cys	Lys	Asp	Ser	Ala	Gly	Val	Trp	Ala	Cys	Cys	Pro	Tyr	Leu	Lys
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Gly	Val	Cys	Cys	Arg	Asp	Gly	Arg	His	Cys	Cys	Pro	Gly	Gly	Phe	His
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Cys	Ser	Ala	Arg	Gly	Thr	Lys	Cys	Leu	Arg	Lys	Lys	Ile	Pro	Arg	Trp
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<210> 5  
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<400> 5  
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 Trp Pro Arg Ile Thr Ser His His Leu Asp Gly Ser Cys Gln Thr His  
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 Gly His Cys Pro Ala Gly Tyr Ser Cys Leu Leu Thr Val Ser Gly Thr  
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 Ser Ser Cys Cys Pro Phe Ser Lys Gly Val Ser Cys Gly Asp Gly Tyr  
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 His Cys Cys Pro Gln Gly Phe His Cys Ser Ala Asp Gly Lys Ser Cys  
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 Phe Gln Met Ser Asp Asn Pro Leu Gly Ala Val Gln Cys Pro Gly Ser  
 115 120 125  
 Gln Phe Glu Cys Pro Asp Ser Ala Thr Cys Cys Ile Met Val Asp Gly  
 130 135 140  
 Ser Trp Gly Cys Cys Pro Met Pro Gln Ala Ser Cys Cys Glu Asp Arg  
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 Val His Cys Cys Pro His Gly Ala Ser Cys Asp Leu Val His Thr Arg  
 165 170 175  
 Cys Val Ser Pro Thr Gly Thr His Thr Leu Leu Lys Lys Phe Pro Ala  
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 Gln Lys Thr Asn Arg Ala Val Ser Leu Pro Phe Ser Val Val Cys Pro  
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 Asp Ala Lys Thr Gln Cys Pro Asp Asp Ser Thr Cys Cys Glu Leu Pro  
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 Thr Gly Lys Tyr Gly Cys Cys Pro Met Pro Asn Ala Ile Cys Cys Ser  
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 Ser Lys Cys Leu Ser Lys Asn Tyr Thr Thr Asp Leu Leu Thr Lys Leu  
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 Pro Gly Tyr Pro Val Lys Glu Val Lys Cys Asp Met Glu Val Ser Cys  
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 Pro Glu Gly Tyr Thr Cys Cys Arg Leu Asn Thr Gly Ala Trp Gly Cys  
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 Cys Pro Phe Ala Lys Ala Val Cys Cys Glu Asp His Ile His Cys Cys  
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 Pro Ala Gly Phe Gln Cys His Thr Glu Lys Gly Thr Cys Glu Met Gly  
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 Ile Leu Gln Val Pro Trp Met Lys Lys Val Ile Ala Pro Leu Arg Leu  
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 Pro Asp Pro Gln Ile Leu Lys Ser Asp Thr Pro Cys Asp Asp Phe Thr  
 355 360 365  
 Arg Cys Pro Thr Asn Asn Thr Cys Cys Lys Leu Asn Ser Gly Asp Trp  
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 Gly Cys Cys Pro Ile Pro Glu Ala Val Cys Cys Ser Asp Asn Gln His  
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 Cys Cys Pro Gln Gly Phe Thr Cys Leu Ala Gln Gly Tyr Cys Gln Lys  
 405 410 415

Gly Asp Thr Met Val Ala Gly Leu Glu Lys Ile Pro Ala Arg Gln Thr  
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 Thr Pro Leu Gln Ile Gly Asp Ile Gly Cys Asp Gln His Thr Ser Cys  
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 Pro Val Gly Gln Thr Cys Cys Pro Ser Leu Lys Gly Ser Trp Ala Cys  
                   450                                  455                                  460  
 Cys Gln Leu Pro His Ala Val Cys Cys Glu Asp Arg Gln His Cys Cys  
 465                                  470                                  475                                  480  
 Pro Ala Gly Tyr Thr Cys Asn Val Lys Ala Arg Thr Cys Glu Lys Asp  
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 Val Asp Phe Ile Gln Pro Pro Val Leu Leu Thr Leu Gly Pro Lys Val  
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                   515                                  520                                  525  
 Cys Cys Lys Asp Ser Ala Gly Val Trp Ala Cys Cys Pro Tyr Leu Lys  
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 Gly Val Cys Cys Arg Asp Gly Arg His Cys Cys Pro Gly Gly Phe His  
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 Cys Ser Ala Arg Gly Thr Lys Cys Leu Arg Lys Lys Ile Pro Arg Trp  
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 aagtatggct gctgtccaat gcccaatgcc atctgctgtt ccgaccacct gcactgctgc 780  
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 accctcgccc ctaaggttgg gaatgtggag tgtggagaag ggcatttctg ccatgataac 1620  
 cagacctggt gtaaagacag tgcaggagtc tgggcctgct gtccctacct aaaggggtgc 1680  
 tgctgtagag atggacgtca ctggtgcccc ggtggcttcc actgttcagc caggggaacc 1740  
 aagtgtttgc gaaagaagat tctcgtctgg gacatgtttt tgagggatcc ggtcccaaga 1800  
 ccgctactgt aaggaagggc tacagactta aggaactcca cagtcctggg aaccctgttc 1860  
 cgaggggtacc cactactcag gcctccctag cgcctcctcc cctaactgtc ccccggccta 1920

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ctcatcctga gtcaccctat caccatggga ggtggagcct caaactaaaa ccttctttta 1980
tggaagaag gctgtggcca aaagccccgt atcaaaactgc catttcttcc ggtttctgtg 2040
gaccttgtag ccaggtgctc ttccccgagcc acaggtgttc tgtgagcttg cttgtgtgtg 2100
tgtgcgctg tgcggtgtgt gtcccaataa agtttgataga ctttc 2145

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<210> 7
<211> 132
<212> PRT
<213> Homo sapiens

```

```

<400> 7
Met Lys Ser Ser Gly Leu Phe Pro Phe Leu Val Leu Leu Ala Leu Gly
 1          5          10          15
Thr Leu Ala Pro Trp Ala Val Glu Gly Ser Gly Lys Ser Phe Lys Ala
          20          25          30
Gly Val Cys Pro Pro Lys Lys Ser Ala Gln Cys Leu Arg Tyr Lys Lys
          35          40          45
Pro Glu Cys Gln Ser Asp Trp Gln Cys Pro Gly Lys Lys Arg Cys Cys
 50          55          60
Pro Asp Thr Cys Gly Ile Lys Cys Leu Asp Pro Val Asp Thr Pro Asn
65          70          75          80
Pro Thr Arg Arg Lys Pro Gly Lys Cys Pro Val Thr Tyr Gly Gln Cys
          85          90          95
Leu Met Leu Asn Pro Pro Asn Phe Cys Glu Met Asp Gly Gln Cys Lys
          100          105          110
Arg Asp Leu Lys Cys Cys Met Gly Met Cys Gly Lys Ser Cys Val Ser
          115          120          125
Pro Val Lys Ala
          130

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<210> 8
<211> 625
<212> DNA
<213> Homo sapiens

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<400> 8
agagtcactc ctgccttcac catgaagtc agcggcctct tccccttctt ggtgctgctt 60
gccctgggaa ctctggcacc ttgggctgtg gaaggctctg gaaagtcctt caaagctgga 120
gtctgtcctc ctaagaaatc tgcccagtc cttagataga agaaacctga gtgccagagt 180
gactggcagt gtccagggaa gaagagatgt tgtcctgaca cttgtggcat caaatgcctg 240
gatcctgttg acaccccaaa cccaacaagg aggaagcctg ggaagtgcc agtgacttat 300
ggccaatgtt tgatgcttaa ccccccaat ttctgtgaga tggatggcca gtgcaagcgt 360
gacttgaagt gttgcatggg catgtgtggg aaatcctgcg tttcccctgt gaaagcttga 420
ttcctgccat atggaggagg ctctggagtc ctgctctgtg tggtcagggt cctttccacc 480
ctgagacttg gtcaccacac tgatatcctc ctttggggaa aggcttgga cacagcaggc 540
tttcaagaag tgccagttga tcaatgaata aataaacgag cctatttctc tttgcaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaa 625

```

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<210> 9
<211> 131
<212> PRT
<213> Mus musculus

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<400> 9
Met Lys Ser Cys Gly Leu Leu Pro Phe Thr Val Leu Leu Ala Leu Gly
 1          5          10          15
Ile Leu Ala Pro Trp Thr Val Glu Gly Gly Lys Asn Asp Ala Ile Lys
          20          25          30
Ile Gly Ala Cys Pro Ala Lys Lys Pro Ala Gln Cys Leu Lys Leu Glu
          35          40          45

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Lys Pro Gln Cys Arg Thr Asp Trp Glu Cys Pro Gly Lys Gln Arg Cys  
 50 55 60  
 Cys Gln Asp Ala Cys Gly Ser Lys Cys Val Asn Pro Val Pro Ile Arg  
 65 70 75 80  
 Lys Pro Val Trp Arg Lys Pro Gly Arg Cys Val Lys Thr Gln Ala Arg  
 85 90 95  
 Cys Met Met Leu Asn Pro Pro Asn Val Cys Gln Arg Asp Gly Gln Cys  
 100 105 110  
 Asp Gly Lys Tyr Lys Cys Cys Glu Gly Ile Cys Gly Lys Val Cys Leu  
 115 120 125  
 Pro Pro Met  
 130

<210> 10  
 <211> 1123  
 <212> DNA  
 <213> Mus musculus

<400> 10  
 ggcacgaggg atgccaaacc cctacctaac cagaagaaga gaagaaaggc cactgccgag 60  
 gtcacttcca gtacttgagg gagaaagcaa cgttcccatt tacagctgag taacaggagc 120  
 cacaaggat gtctgactca aaagtccagg ctctcgatga ctgtgagggtg ctgcccagtg 180  
 tgtcttcttc aatgtaacct caggacctag aacagcacct tgcattgtgct ctcagggtgt 240  
 tactctgatg gcctcatggt cctgcctgaa acagaaagtc tgccacctac ttctgtagca 300  
 gcaagactcc tgttctgtgg ctaagcttcc tgctgtgca agagccacag ggaggggcca 360  
 aatgcatgcc actggggcca cgcctcctgg taaagacata aatagtgatc ctcgggactg 420  
 gtcactcagag ctcccctgcc ttcaccatga agtcctgcgg ccttttacct ttcacgggtg 480  
 tccttgctct ggggatcctg gcaccctgga ctgtggaagg aggcaaaaat gatgctatca 540  
 aaatcggagc ctgccctgct aaaaagcctg cccagtgcct taagcttgag aagccacaat 600  
 gccgtactga ctgggagtgc ccgggaaaagc agaggtgctg ccaagatgct tgcgggttcca 660  
 agtgctgtaa tcctgttccc attcgcaaac cagtgtggag gaagcctggg aggtgctgca 720  
 aaactcaggc aagatgtatg atgcttaacc ctcccaatgt ctgccagagg gacgggcagt 780  
 gtgacggcaa atacaagtgc tgtgagggta tatgtgggaa agtctgcctg ccccccgatgt 840  
 gagcctgatc cctgacattg gcgcccggctc tggactcgtg ctccgggtgtc tctggaaact 900  
 acttccctgc tcccaggcgt ccctgctccg ggttccatgg ctcccggctc cctgtatccc 960  
 aggcttggat cctgtggacc agggttactg ttttaccact aacatctcct tttggctcag 1020  
 cattcaccga tctttagggg aatgctgttg gagagcaaat aaataaacgc attcatttct 1080  
 ctatgcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1123

<210> 11  
 <211> 39  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> A T7 translation initiation sequence.

<400> 11  
 tctagaaata atttgttta actttaagaa ggagatata 39

<210> 12  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 12  
 Met Trp Thr Leu Val Ser Trp Val Ala Leu Thr Ala Gly Leu Val Ala  
 1 5 10 15

<210> 13  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 13  
Gly Thr Arg Cys Pro Asp Gly Gln Phe Cys Pro Val Ala Cys Cys Leu  
1 5 10 15  
Asp Pro Gly Gly Ala Ser Tyr Ser Cys Cys Arg Pro Leu Leu Asp Lys  
20 25 30  
Trp Pro Thr Thr Leu Ser Arg His Leu  
35 40

<210> 14  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 14  
Gly Gly Pro Cys Gln Val Asp Ala His Cys Ser Ala Gly His Ser Cys  
1 5 10 15  
Ile Phe Thr Val Ser Gly Thr Ser Ser Cys Cys Pro Phe Pro Glu Ala  
20 25 30  
Val Ala Cys Gly Asp Gly His His Cys Cys Pro Arg Gly Phe His Cys  
35 40 45  
Ser Ala Asp Gly Arg Ser Cys Phe  
50 55

<210> 15  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 15  
Gln Arg Ser Gly Asn Asn Ser Val Gly  
1 5

<210> 16  
<211> 57  
<212> PRT  
<213> Homo sapiens

<400> 16  
Ala Ile Gln Cys Pro Asp Ser Gln Phe Glu Cys Pro Asp Phe Ser Thr  
1 5 10 15  
Cys Cys Val Met Val Asp Gly Ser Trp Gly Cys Cys Pro Met Pro Gln  
20 25 30  
Ala Ser Cys Cys Glu Asp Arg Val His Cys Cys Pro His Gly Ala Phe  
35 40 45  
Cys Asp Leu Val His Thr Arg Cys Ile  
50 55

<210> 17  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 17  
Thr Pro Thr Gly Thr His Pro Leu Ala Lys Lys Leu Pro Ala Gln Arg  
1 5 10 15  
Thr Asn Arg Ala Val Ala Leu Ser Ser Ser  
20 25

<210> 18  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 18  
Val Met Cys Pro Asp Ala Arg Ser Arg Cys Pro Asp Gly Ser Thr Cys  
1 5 10 15  
Cys Glu Leu Pro Ser Gly Lys Tyr Gly Cys Cys Pro Met Pro Asn Ala  
20 25 30  
Thr Cys Cys Ser Asp His Leu His Cys Cys Pro Gln Asp Thr Val Cys  
35 40 45  
Asp Leu Ile Gln Ser Lys Cys Leu  
50 55

<210> 19  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 19  
Ser Lys Glu Asn Ala Thr Thr Asp Leu Leu Thr Lys Leu Pro Ala His  
1 5 10 15  
Thr Val Gly

<210> 20  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 20  
Asp Val Lys Cys Asp Met Glu Val Ser Cys Pro Asp Gly Tyr Thr Cys  
1 5 10 15  
Cys Arg Leu Gln Ser Gly Ala Trp Gly Cys Cys Pro Phe Thr Gln Ala  
20 25 30  
Val Cys Cys Glu Asp His Ile His Cys Cys Pro Ala Gly Phe Thr Cys  
35 40 45  
Asp Thr Gln Lys Gly Thr Cys Glu  
50 55

<210> 21  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 21  
Gln Gly Pro His Gln Val Pro Trp Met Glu Lys Ala Pro Ala His Leu  
1 5 10 15  
Ser Leu Pro Asp Pro Gln Ala Leu Lys Arg Asp  
20 25

<210> 22  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 22  
Val Pro Cys Asp Asn Val Ser Ser Cys Pro Ser Ser Asp Thr Cys Cys  
1 5 10 15  
Gln Leu Thr Ser Gly Glu Trp Gly Cys Cys Pro Ile Pro Glu Ala Val  
20 25 30  
Cys Cys Ser Asp His Gln His Cys Cys Pro Gln Arg Tyr Thr Cys Val  
35 40 45  
Ala Glu Gly Gln Cys Gln  
50

<210> 23  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 23  
Arg Gly Ser Glu Ile Val Ala Gly Leu Glu Lys Met Pro Ala Arg Arg  
1 5 10 15  
Ala Ser Leu Ser His Pro Arg Asp  
20

<210> 24  
<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 24  
Ile Gly Cys Asp Gln His Thr Ser Cys Pro Val Gly Gly Thr Cys Cys  
1 5 10 15  
Pro Ser Leu Gly Gly Ser Trp Ala Cys Cys Gln Leu Pro His Ala Val  
20 25 30  
Cys Cys Glu Asp Arg Gln His Cys Cys Pro Ala Gly Tyr Thr Cys Asn  
35 40 45  
Val Lys Ala Arg Ser Cys Glu  
50 55

<210> 25  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 25  
Lys Glu Val Val Ser Ala Gln Pro Ala Thr Phe Leu Ala Arg Ser Pro  
1 5 10 15  
His Val Gly Val Lys  
20

<210> 26  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 26  
Asp Val Glu Cys Gly Glu Gly His Phe Cys His Asp Asn Gln Thr Cys  
1 5 10 15  
Cys Arg Asp Asn Arg Gln Gly Trp Ala Cys Cys Pro Tyr Arg Gln Gly  
20 25 30  
Val Cys Cys Ala Asp Arg Arg His Cys Cys Pro Ala Gly Phe Arg Cys  
35 40 45  
Ala Ala Arg Gly Thr Lys Cys Leu  
50 55

<210> 27  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 27  
Arg Arg Glu Ala Pro Arg Trp Asp Ala Pro Leu Arg Asp Pro Ala Leu  
1 5 10 15  
Arg Gln Leu Leu  
20

<210> 28  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 28  
Asn Ser Val Gly Ala Ile Gln Cys Pro Asp Ser Gln Phe  
1 5 10

<210> 29  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 29  
Ala Pro Ala His Leu Ser Leu Pro Asp Pro Gln Ala Leu Lys Arg Asp  
1 5 10 15  
Val Pro Cys Asp  
20

<210> 30  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 30  
Val Gly Val Lys Asp Val Glu Cys Gly Glu Gly His Phe  
1 5 10

<210> 31  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 31

Trp Pro Thr Thr Leu Ser Arg His Leu Gly Gly Pro Cys Gln  
1 5 10

<210> 32

<211> 13

<212> PRT

<213> Homo sapiens

<400> 32

Ala Ser Leu Ser His Pro Arg Asp Ile Gly Cys Asp Gln  
1 5 10